

Serial No. : 10/586,002
Filed : July 12, 2006

IN THE ABSTRACT:

Please amend the abstract of the disclosure as follows:

A ball endmill having ~~(a)~~ a cylindrical tool body and ~~(b)~~ ball-nosed end cutting edges each of which includes ~~(b-1)~~ a first portion provided by a radially inner portion of each ball-nosed end cutting edge, and ~~(b-2)~~ a second portion provided by a radially outer portion of each ball-nosed end cutting edge. The first portion is defined by a circular arc which is convex in a direction of rotation of the tool body and which has a first radius of curvature ~~as measured~~ seen in a distal end view ~~perpendicular to the axis~~. A ratio of the first radius of curvature to an outside diameter of the cylindrical body is ~~not smaller than 0.025 and not larger than 0.10~~ between 0.025 and 0.10. The second portion is defined by a circular arc which is convex in the direction of the rotation of the tool body and which has a second radius of curvature as measured in the distal end view. The second radius of curvature is larger than the first radius of curvature.